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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,408	07/15/2003	Yoshinobu Hasuka	SIW-063	7646
959	7590	04/29/2005	EXAMINER	
LAHIVE & COCKFIELD, LLP. 28 STATE STREET BOSTON, MA 02109			CAMPBELL, KELLY E	
		ART UNIT		PAPER NUMBER
		3618		

DATE MAILED: 04/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/619,408	HASUKA ET AL.	
	Examiner	Art Unit	
	Kelly E Campbell	3618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No. _____.
 - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Iwasaki (2002/0162694 A1).

Iwasaki teaches an idle control system for a fuel cell vehicle, the fuel cell vehicle including:

a fuel cell (100, 4) for generating electric power by supplying reaction gases, see PP [0024], using an air supply compressor (5) and a hydrogen supply device (1);
a driving motor (9) to which generated electric current from the fuel cell is supplied;

vehicle auxiliary equipment to which generated electric current from the fuel cell is supplied, see PP [0077];

and a power storage device (7) which is charged by generated electric current from the fuel cell;

and the idle control system for controlling the fuel cell vehicle according to driving modes, wherein, when the fuel cell vehicle is in a normal driving mode, and not in an

idle mode, the control system drives the fuel cell to generate electric current corresponding to a required power for driving the driving motor and the auxiliary equipment, see PP [0038-0040];

when the fuel cell vehicle is in a predetermined idle mode , the control system stops the fuel cell to stop power generation of the fuel cell by stopping the air compressor; and while the fuel cell vehicle is in a predetermined idle mode, and when it is determined that the state of charge of the power storage device falls below a predetermined state of charge of the power storage device (SOC_L), the control system drives the fuel cell to generate a current corresponding to the optimum power generation efficiency of the fuel cell, see PP [0042]; and wherein said predetermined idle state is determined based on an operating state of an accelerator pedal by the driver, see PP [0029].

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Werth teaches a automobile fuel cell system. Brigham et al teaches an energy control system for an electric vehicle. Hoffmann et al teaches a hybrid vehicle control system. Tamai et al teaches a fuel control system. Schmitz et al teaches a fuel cell system and system for controlling state of charge. Hasegawa et al teaches an idle control device for a fuel cell. Iwasaki et al teaches a vehicle drive system. Fairlie et al teaches an energy distribution system.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelly E Campbell whose telephone number is (703) 605-4264. The examiner can normally be reached on 9:00-5:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Ellis can be reached on (703) 305-0168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Kelly E. Campbell
KEC

 2/7/05
PAUL N. DICKSON
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